

IN THE CLAIMS:

Please amend the claims as indicated below.

1. (Cancelled)

2. (Cancelled)

3. (Previously Presented) The method according to claim 11, wherein the step of detecting the second signal portion further comprises filtering the second signal portion with a complex-valued processing filter of two IIR filters with biquad structure, capable of sampling said second signal portion at a sampling frequency which is twice the frequency of said second signal portion.

4. (Previously Presented) The method according to claim 11, wherein said first signal portion comprises OFDM as said first signal coding technique of said first signal portion and said second signal portion comprises OFDM as said second signal coding technique of said second signal portion.

5. (Previously Presented) The method according to claim 11, wherein said first signal portion comprises BPSK, QPSK or other PSK as said first signal coding technique of said first signal portion and said second signal portion comprises CCK, QAM or PSK as said second signal coding technique of said second signal portion.

6. (Cancelled)

7. (Currently Amended) A system for accessing a wireless network from a wireless station, comprising:

a memory that stores computer-readable code; and

a processor operatively coupled to said memory, said processor configured to implement said computer-readable code, said computer-readable code configured to:

detect a first signal portion in a received data signal; and

detect a second signal portion in said received data signal, wherein said second signal portion follows said first signal portion, and said second signal portion utilizes a second signal coding technique different from a first signal coding technique utilized by said first signal portion, wherein said step of detecting a second signal portion in said received data signal further comprises the step of determining an auto-correlation between a first part of said second signal portion and a third part of said second signal portion; and

utilize said determination of an auto-correlation to perform network access control.

8. (Previously Presented) The system according to claim 7, wherein said processor is further configured to filter the second signal portion with a complex-valued processing filter of two IIR filters with biquad structure, capable of sampling said second signal portion at a sampling frequency which is twice the frequency of said second signal portion.

9. (Previously Presented) The system according to claim 7, wherein said first signal portion comprises OFDM as said first signal coding technique of said first signal portion and said second signal portion comprises OFDM as said second signal coding technique of said second signal portion.

10. (Previously Presented) The method according to claim 7, wherein said first signal portion comprises BPSK, QPSK or other PSK as said first signal coding technique of said first signal portion and said second signal portion comprises CCK, QAM or PSK as said second signal coding technique of said second signal portion.

11. (Currently Amended) A method for accessing a wireless network from a wireless station, comprising the steps of:

detecting a first signal portion in a received data signal; ~~and~~

detecting a second signal portion in said received data signal, wherein said second
5 signal portion follows said first signal portion, and said second signal portion utilizes a second
signal coding technique different from a first signal coding technique utilized by said first signal
portion, wherein said step of detecting a second signal portion in said received data signal further
comprises the step of determining an auto-correlation between a first part of said second signal
portion and a third part of said second signal portion; and

10 utilizing said determination of an auto-correlation to perform network access
control.